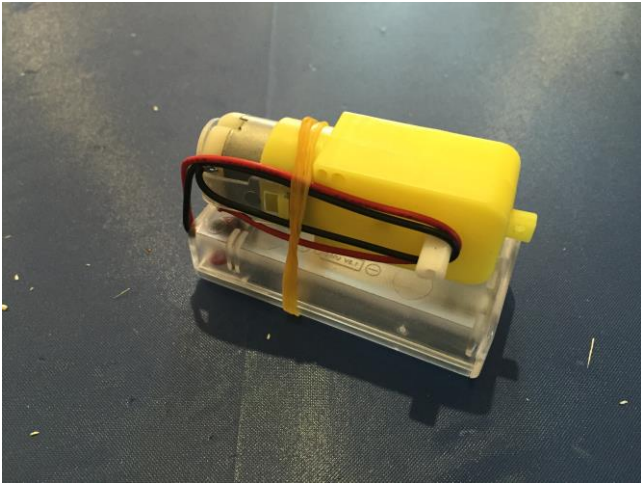


Archaeopteryx 2

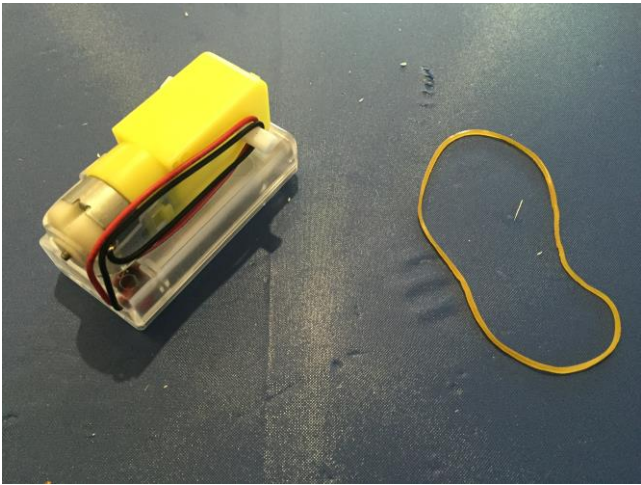


Before starting, check all the parts from the previous lesson.

Today we are going to assemble the motor.

Before handing the motors to the students, give them safety instructions regarding using the motor:

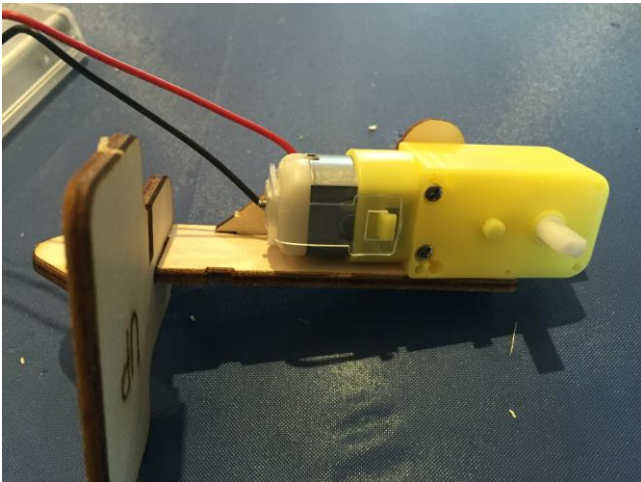
Motors should be on the table at all time! No motor should be held in the air. If they students need help they may call on the instructor. Students are not allowed to walk in the classroom holding the motor in their hand.



This is the motor. In case you get a different motor, ask your supervisor how to assemble the motor correctly. If you have the motor shown in the photo, follow the instructions.

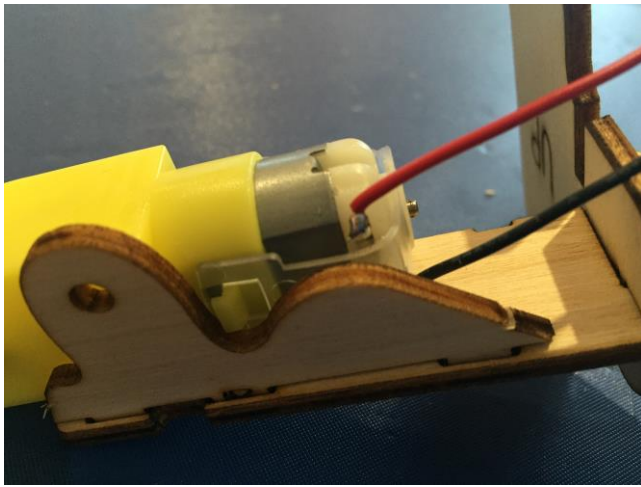
The INSTRUCTOR MUST take off the rubber band and keep it!!!

Only then, hand over the motor to the students.



Place the card on the side with the word “motor” facing up. Then place the motor as shown in the picture.

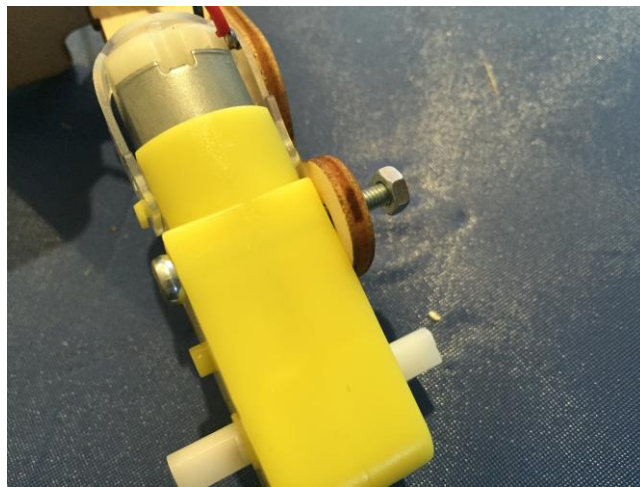
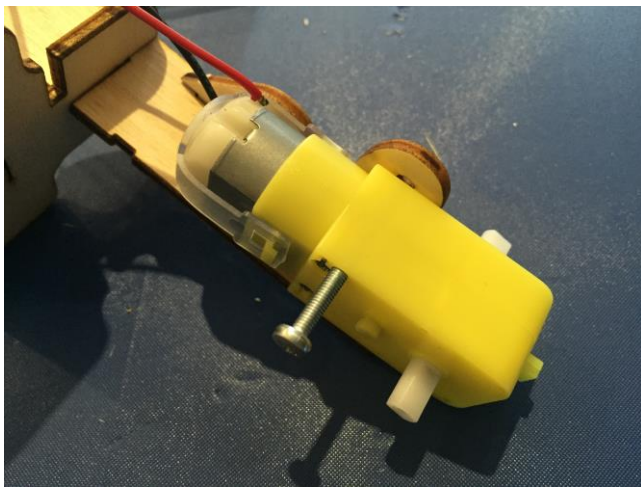
RED WIRE ON TOP!!!



RED WIRE SHOULD BE ON TOP!!!! Once all the students place the motors in place, check all the models. Do not continue until you checked all the motors.

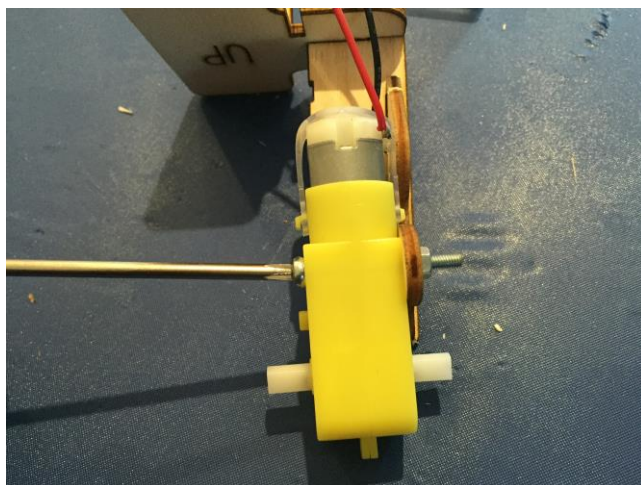


Once checked, hand each student one 30 screw and one regular locknut.



Insert the screw from the left side, through the motor, out from the other side of the wood.

Place a regular locknut on the other side (from the wood side)

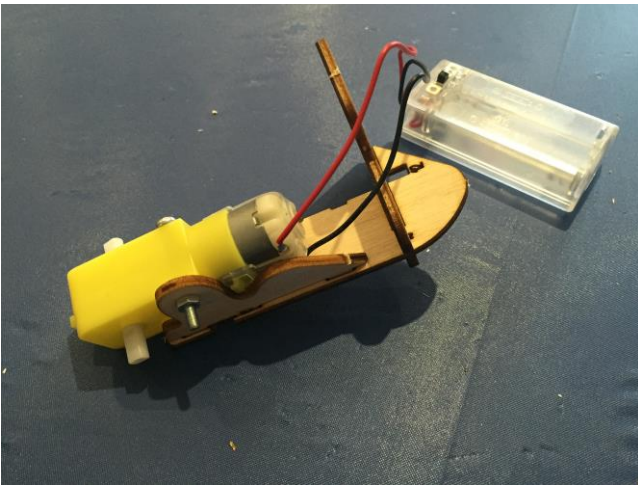


Give the students the safety instructions regarding screwdrivers.

Hand each students a screw driver.

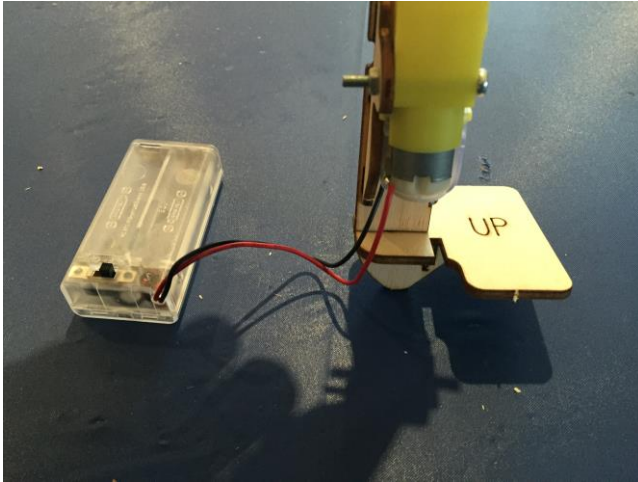
Tighten the screw. Once done, collect all the screwdrivers and double check the models.

CHECKPOINT!!!

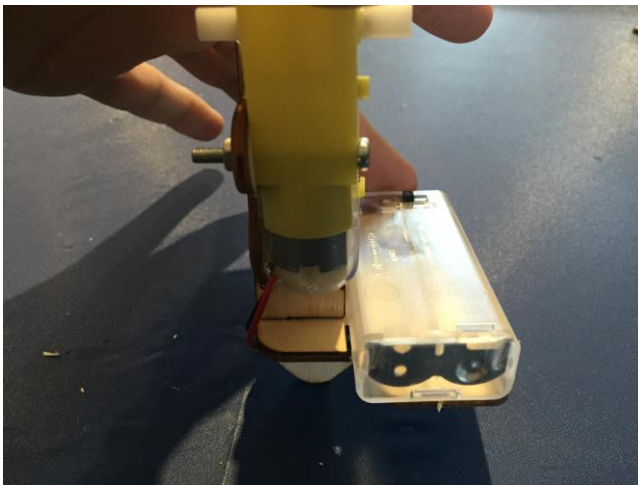


CHECKPOINT!!!

Check the direction of the wires and the position of the motor.



Lift the card so you can read the word "up", take the battery box to the left side.



Pull it behind/around the motor and place the battery box on the word "up"

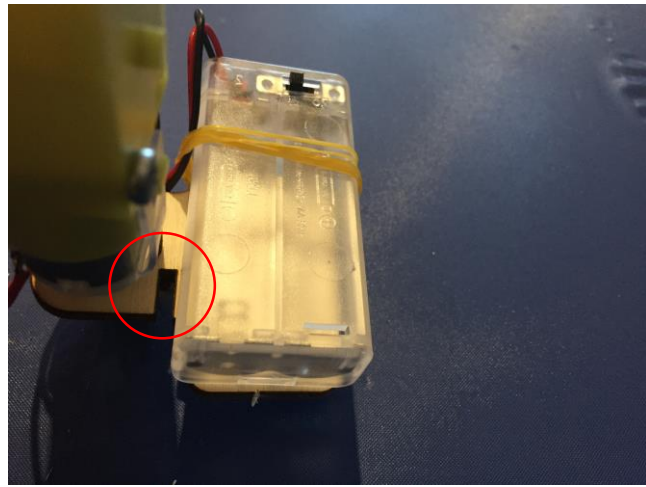
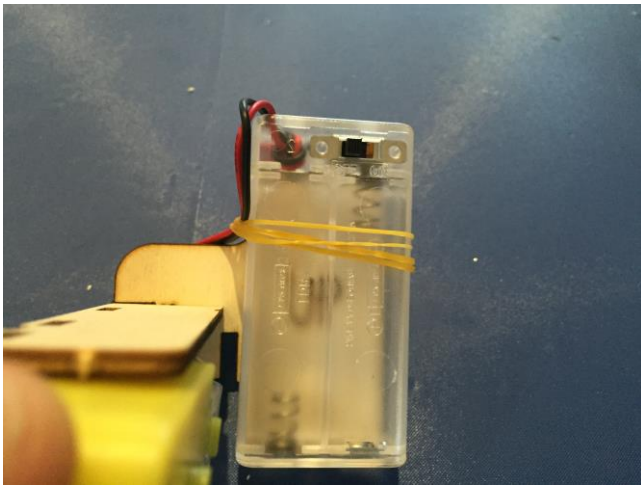


Next, we are going to use the rubber band from earlier to secure the battery box in its place.

GIVE SAFETY INSTRUCTION about rubber bands.

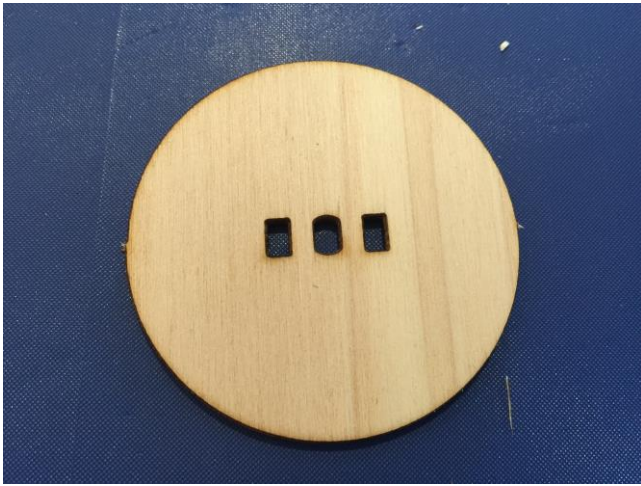
Then hand over the rubber bands.

If the students are K or 1st graders. Do this step for them.

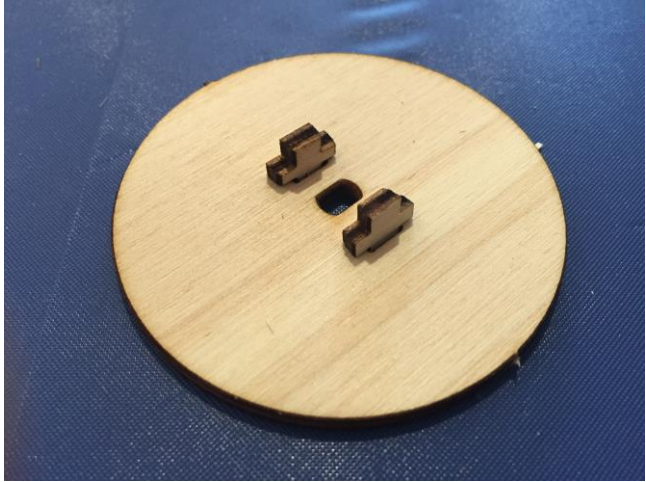
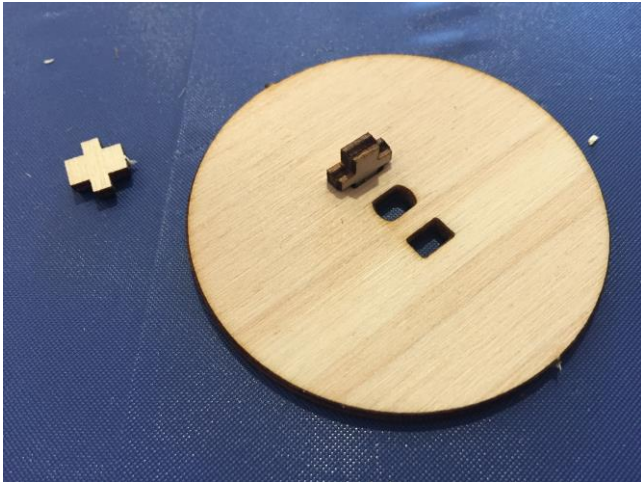


Twist the rubber band around the battery box behind the motor.

Keep the front crack open (red circle)



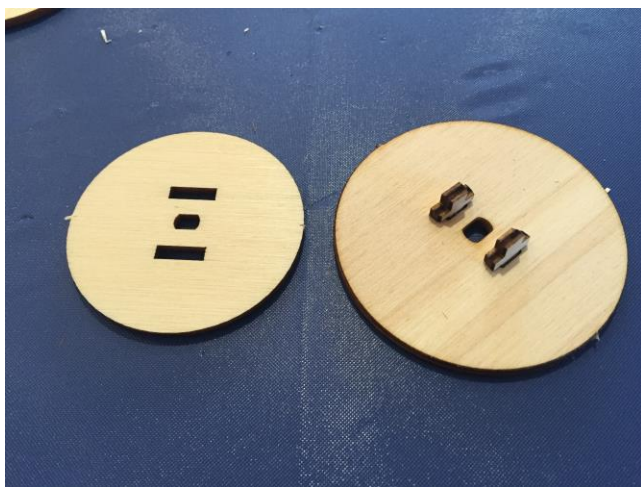
Pop out the large circle shown in the picture



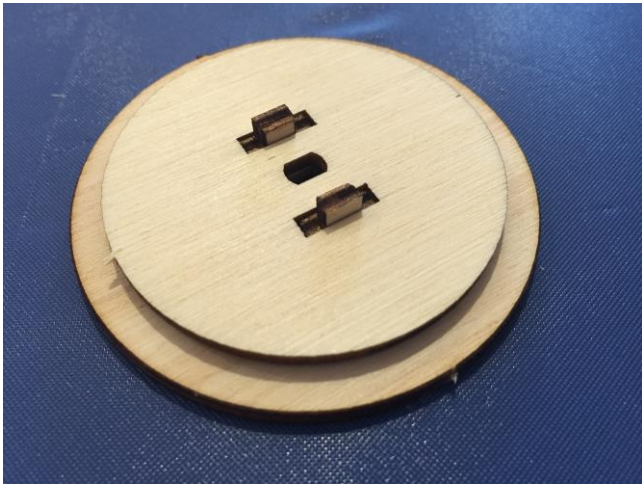
Pop out the 2 "±".

Hand glue to the students. Don't get glue in the center crack.

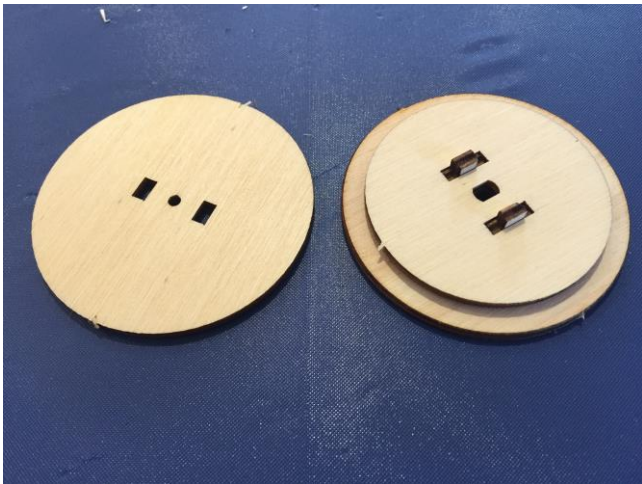
Glue them with the wide side to the bottom.



Pop out the small circle



Glue it on top of the large circle, inserted on the “+” parts



Pop the last large circle



Glue it on top of the small circle.

Make sure not to have glue, in the cracks!

CHECKPOINT!!!

Check all the parts from this lesson. If you have time, you can color the model. If not, have the students put their parts in their plastic bags, collect the bags and clean the classroom.